

<pre> AACTAGATGCCACCAATCACTACCACGTACCAATCATACCAATAATGTA CTAATAATGTACCAATAACTATGGTTATAAAGATGGTGTCAATTAA ATCAATATTAGTCCTTATATTA </pre>	125
<pre>M V S F K S I L V P Y I</pre>	
<pre> CACTCTTTAATGAGCGGTGCTGTCTTGCAAGTGTACCGATCCGAAGCTGGT GGCCTAGTGAAGCTGGTGGCCTAGTGGAACTGTGGCCAGTGAAGCTGGTGGC CTAGTGAAGCT </pre>	
<u>Repeat Sequences</u>	
<pre>T L F L M S G A V F A S D T D P E A G G P S E A G G P S G T V G P S E A G G P S E A</pre>	
<pre> GGTGGCCTAGTGGAACTGGTGGCCTAGTGAAGCTGGTGGCCTAGTGAAGCTGGT GGCCTAGTGAAGCTGGTGGCCTAGTGGAACTGGTGGCCTAGTGAAGCTGGTGGC CTAGTGAAGCTGGTGGCCTAGTGAAGCTGGTGGCCTAGTGAAGCTGGTGGCCTAG TGAAGCT </pre>	
<u>Repeat Sequences</u>	
<pre>G G P S G T G W P S E A G G P S E A G G P S E A G G P S G T G W P S G T</pre>	
<pre> TGGTTGGCCTAGTGAAGCTGGTGGTCTAGTGAACGATTGGATATCAGCTCTCCG TATTCTAGAAGAATAGTTATTTAATGAAGTTGTTATCTTATATATAACAAACAT AGTGTATGA </pre>	
<u>Repeat Sequences</u>	
<pre>G W P S E A G W S S E R F G Y Q L L P Y S R R I V I F N E V C L S Y I Y K H S V N</pre>	
<pre> TATTGGAACGAGATAGGGTGAACGATGGTCATAAAGACTACATTGAAGAAAAACCA AGGAGAAGAATAAATTGAAAAAAGATTGGAAAATGTTCTGAACAATATTCCCTTAT GAAGAAA </pre>	
<u>I</u>	
<pre>L E R D R V N D G H K D Y I E E K T K E K N K L K K E L E K C F P E Q Y S L M K K</pre>	
<pre> GAAGAATTGGCTAGAATATTGATAATGCATCCACTATCTTCAAATATAAGTTATG GTTGATGAAATATCAAACAGGCCTATGGTACATTGGAGGTCCAGCTGCTGATAA TTTGACCA </pre>	
<u>E</u>	
<pre>E E L A R I F D N A S T I S S K Y K L L V D E I S N K A Y G T L E G P A A D N F D H</pre>	
<pre> TTTCGTAATATATGGAAAGTCTATTGTACTAAAGATATGTTATATATTGACTTATT TACAAACATTAACTATAATTCTATTGACAATACCGTTAATGATAATCAAGAAAATT TG </pre>	
<u>F</u>	
<pre>R N I W K S I V L K D M F I Y C D L L L Q H L I Y K F Y Y D N T V N D I K K N F</pre>	
<pre> ACGAATCCAATCTAACCTTAGTTGAGGGATAAGATCACTAAAAGGATGGAGATT TAAACACTCATTTGAGGACATGATTAAGGAGTTGAATAGTGCAGCAGAAGAATT AATAAAATT </pre>	
<u>D</u>	
<pre>E S K S K A L V L R D K I T K K D G D Y N T H F E D M I K E L N S A A E E F N K I</pre>	
<pre> GTTGACATCATGATTCCAACATTGGGGATTATGATGAGTATGACAGTTGCAAGTT CAAACCATTTCTTCAATGATCACCGAAATCACTAAAATCACCAAGTTCTAATGTA ATAATTCC </pre>	
<u>V</u>	
<pre>D I M I S N I G D Y D E Y D S I A S F K P F L S M I T E I T K I T K V S N V I I P</pre>	
<pre> TGGAATTAGGCACTAACCTAACCGTTTTAAATATTATTACAAAATAGTAAACCA GATGTACATTATTATATTACAAAATTACACATTATTATGTATGAACGAACGAA CAT </pre>	
<u>G</u>	
<pre>I K A L T L T V F L I F I T K</pre>	

Fig. 1A

CTCAGTCTAAATGAAGAATTGGGATAAAATGGAAATAGATTAAAGTAACATGAGAAAGATGAATAATAATTAGAATATGAAATTAAAGAATAAAATGAAGTAAAGAGTGTATTTGT	1375
AATAATTATAATAATTAGTATACTGATTATTCAGATGACTATTGATTATGTATCAATTAAATATTGATTATAATGATATCATATATGTATAATGATTGATTGTTATACGT	1500
TGTGAATATGTTATATAATGACATACTATAATAATTAAATGAGGGATATTTTTAATAGTATAATGAAATTATAGTTATAATAATTAAATGTAGATAAAATGACATTAAATT	1625
GAATGTTAAATTGAAATGTATGAAAAATGTATTTATAATCTGAATTGATTAATAATAATTCTACAATTAAATTGTAATTATAATAATTGATTATAATCTTGAAATTATT	1750
ATAAAATAATTATACTTCATTAAATTATTCACATAATTCCAAATTATTATCCTTATCTTAATGTTATCCAATTTCACACATCTTCATTACAATTTTTACTAACCTGTATGC	1875
TCATATTCAATTCTTAGAAATATAACGAAATTAGATGTAATTGCCACTTACAAGTAACCATCAATAATAATAATGAATAACCATTATGTCGTATTCCTTATTTTATC	2000
ATATTTTATTGTCATTCCATTCAATTGTATCATTCAATGAGAGAAATAATGAGAAAGATCTCTATAGAAACATAAAATTCAATTAAACTGGATTATTGTTGCAAGTATA	2125
GATGTTAAATCAATAACACTACCGTTGGTAATTAGCATCAAATTCAATTATAATCAGAAATTGATTATCAATTTCGGATGTGATAATTATTTGTTCTGATTCA	2250
CGATCATGTATAACAAACTATTGTTAAAGGTTCCATCCTATAATTAAAGTGGCCAATAAGATTGGCATTAAATTACATTAGTAGTGTGTATTGTAATAGTATCATTGGTACTGACA	2375
<u>GTTGTTATAGGTTTGATTCCATAATGAAACATCAATTCTACACAATACA</u>	2430

Fig. 1B

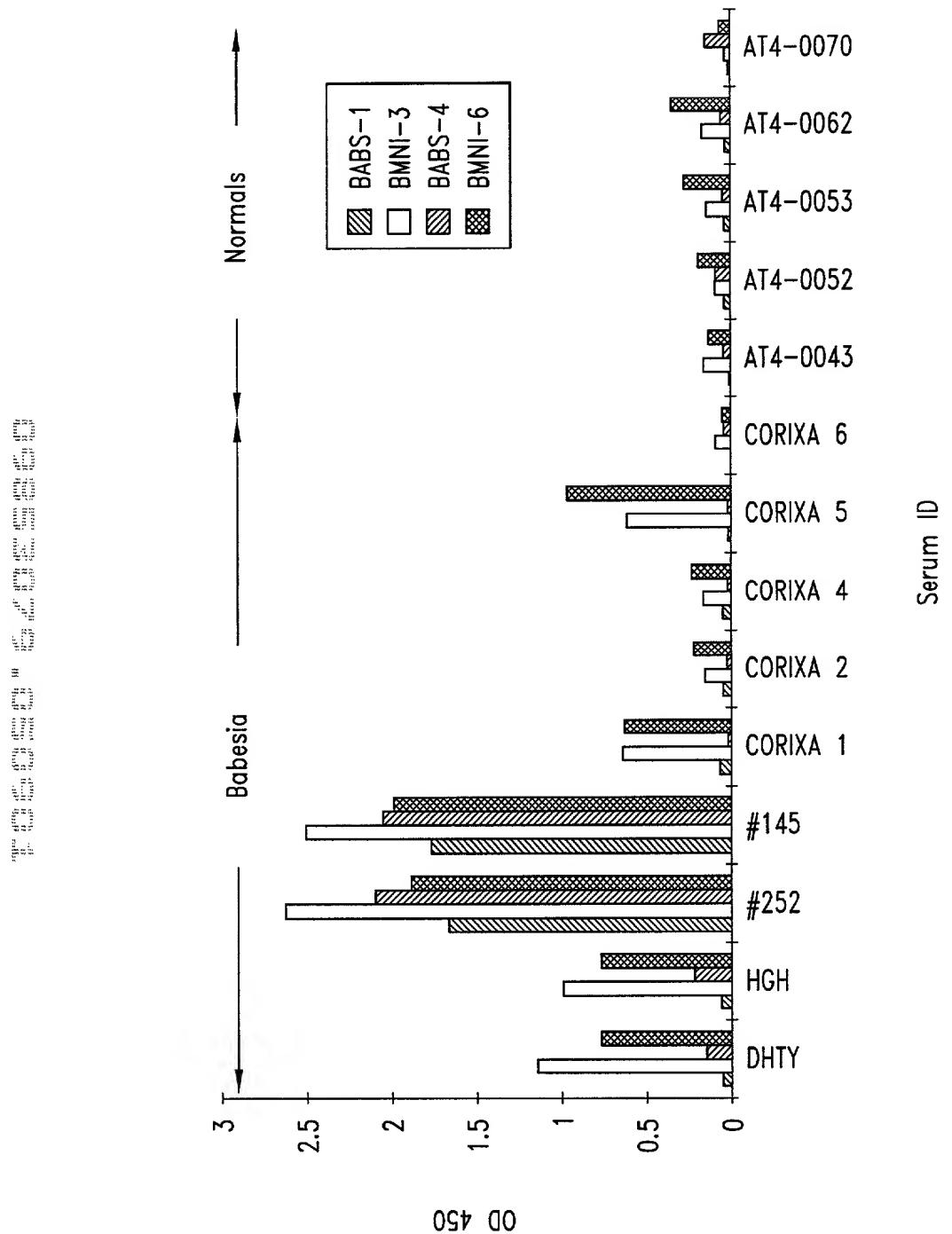


Fig. 2A

BMNI-4 BMNI-15

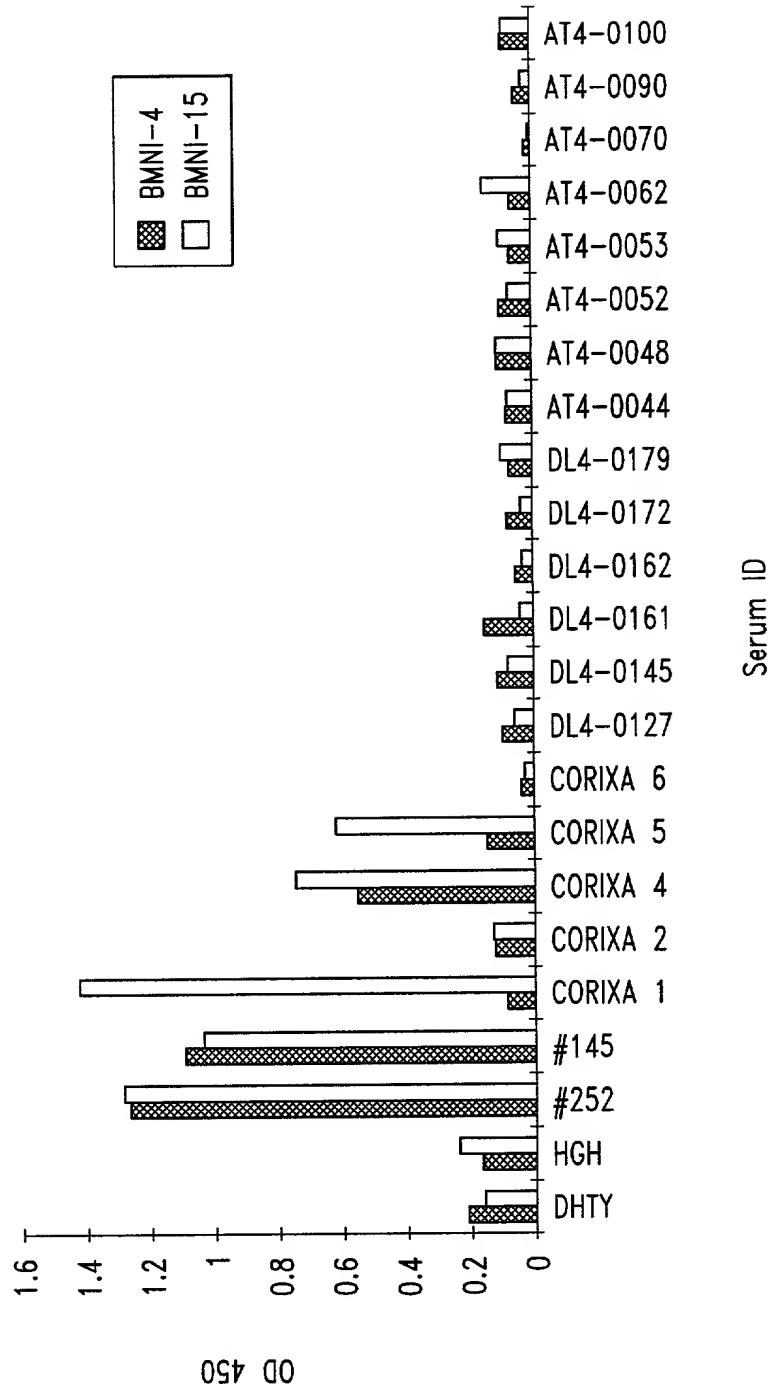


Fig. 2B

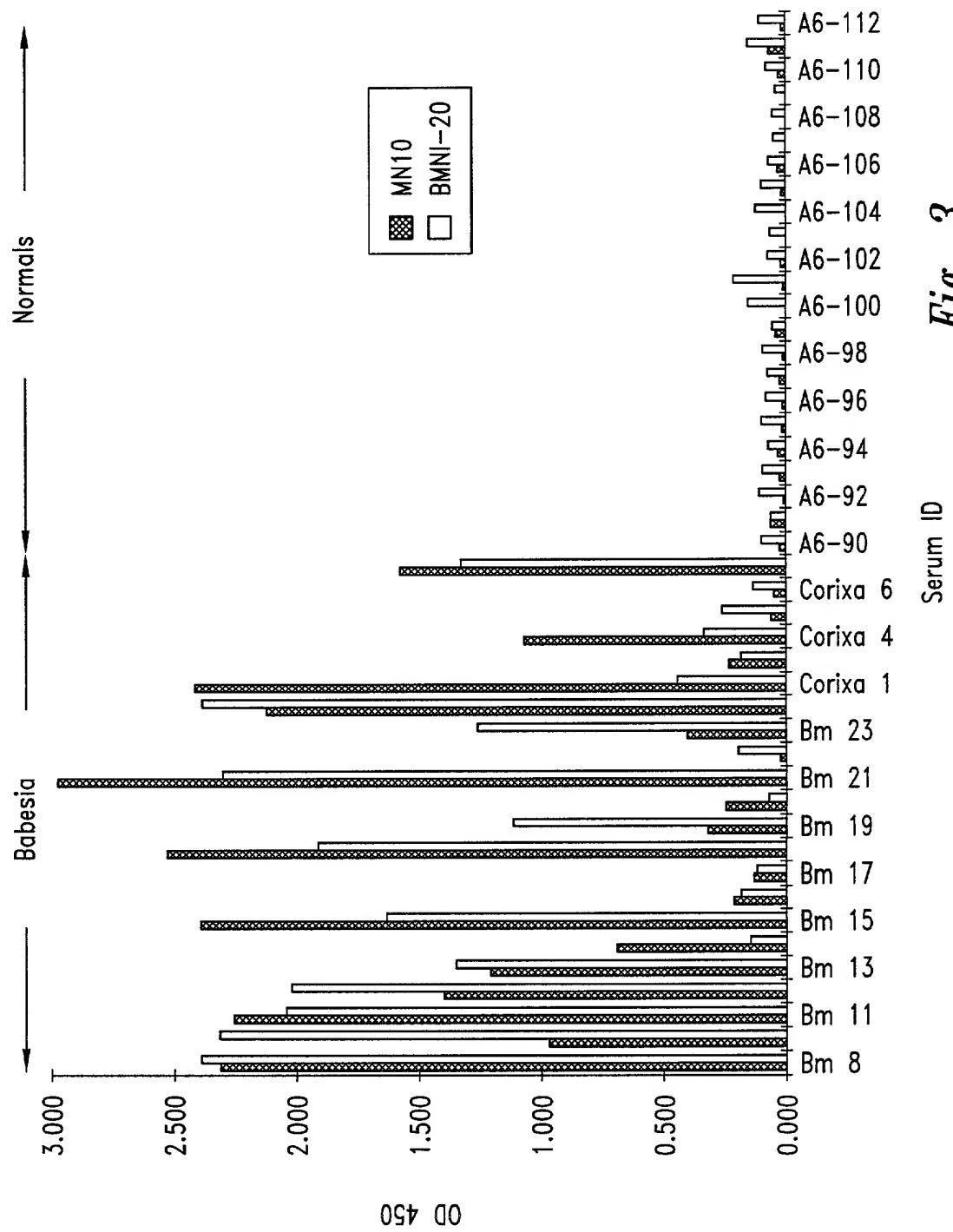


Fig. 3

open: 0¹⁰ 0¹¹ 0¹² 0¹³ 0¹⁴ 0¹⁵ 0¹⁶ 0¹⁷ 0¹⁸ 0¹⁹ 0²⁰ 0²¹ 0²² 0²³ 0²⁴ 0²⁵ 0²⁶ 0²⁷ 0²⁸ 0²⁹ 0³⁰ 0³¹ 0³² 0³³ 0³⁴ 0³⁵ 0³⁶ 0³⁷ 0³⁸ 0³⁹ 0⁴⁰ 0⁴¹ 0⁴² 0⁴³ 0⁴⁴ 0⁴⁵ 0⁴⁶ 0⁴⁷ 0⁴⁸ 0⁴⁹ 0⁵⁰ 0⁵¹ 0⁵² 0⁵³ 0⁵⁴ 0⁵⁵ 0⁵⁶ 0⁵⁷ 0⁵⁸ 0⁵⁹ 0⁶⁰ 0⁶¹ 0⁶² 0⁶³ 0⁶⁴ 0⁶⁵ 0⁶⁶ 0⁶⁷ 0⁶⁸ 0⁶⁹ 0⁷⁰ 0⁷¹ 0⁷² 0⁷³ 0⁷⁴ 0⁷⁵ 0⁷⁶ 0⁷⁷ 0⁷⁸ 0⁷⁹ 0⁸⁰ 0⁸¹ 0⁸² 0⁸³ 0⁸⁴ 0⁸⁵ 0⁸⁶ 0⁸⁷ 0⁸⁸ 0⁸⁹ 0⁹⁰ 0⁹¹ 0⁹² 0⁹³ 0⁹⁴ 0⁹⁵ 0⁹⁶ 0⁹⁷ 0⁹⁸ 0⁹⁹ 0¹⁰⁰

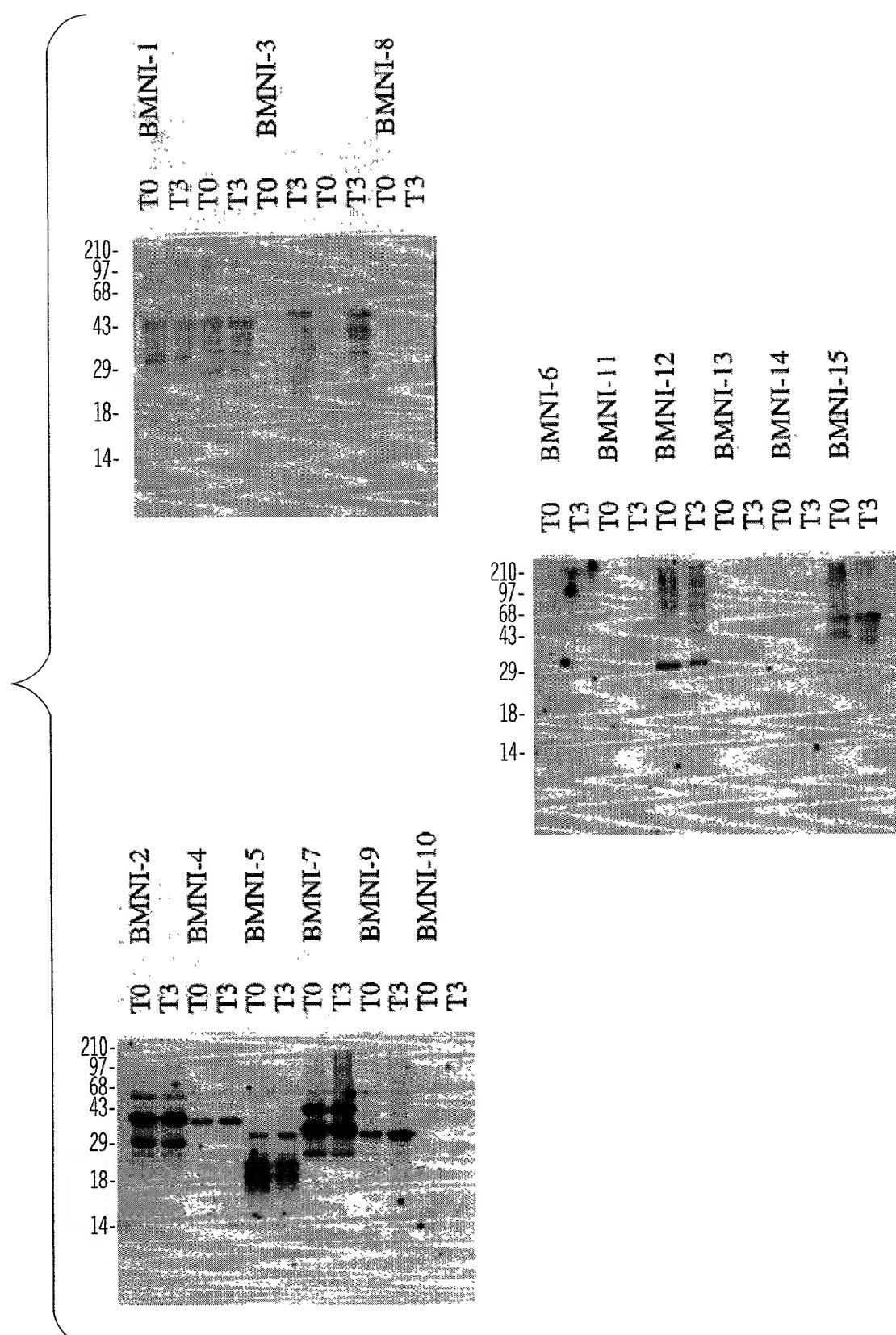


Fig. 4

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

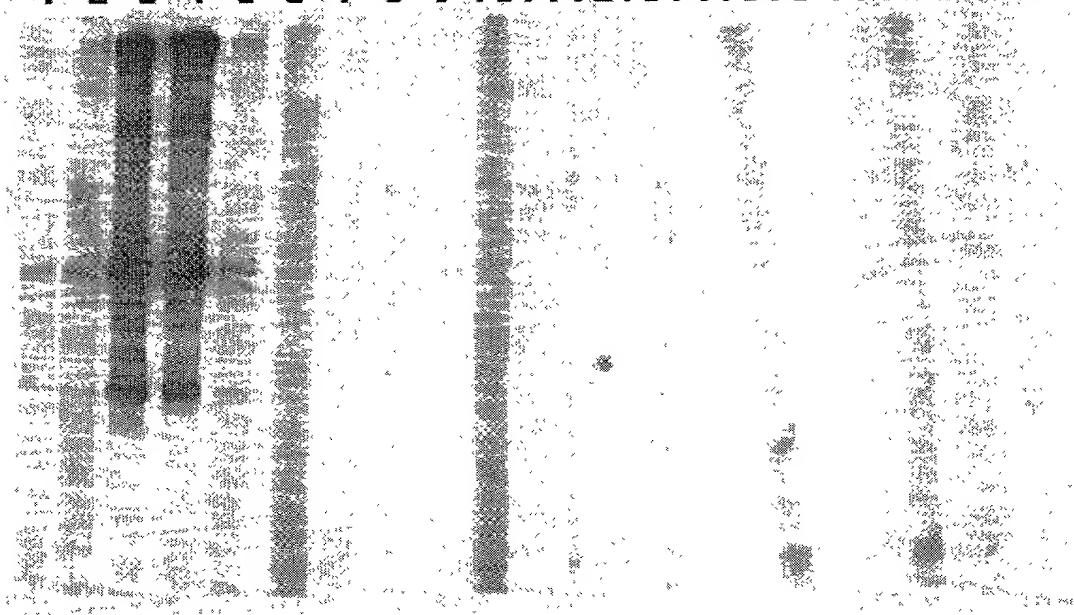


Fig. 5

BI254	.....	AGDTDREA GGPGSGTVGP.	.....
BI1053	.....	GDTDREA GGPGSGTVGP.	.....
BI2227	.....	AGDTDREA GGPGSGTVGP.	..... SEAGGPSEA
BI2259	.....	AGDTDREA GGPGSGTVGP.	..... SEAGGPSEA
BI2253	.....	EA GGPGSGTVGP.	..... SEAGGPSEA
GRAC,S	.....	GDTDREA GGPGSGTVGP.	..... SEAGG PSEAGGPSEA
FISH,S	.....	AGDTDREA GGPGSGTVGPS	SAGGPSEAGG PSEAGGPSEA
MN1HAM	.....	AGDTDREA GGPGSGTVGP.	..... SEA
MN2	.....	AGDTDREA GGPGSGTVGP.	.....
MN1PAT	.....	AGDTDREA GGPGSGTVGP.	..... SEA
Bmni-6	YITLFLMSGA VFAGTDREA GGPGSGTVGP.	.....	..... SEA
MN3	.....	AGDTDREA GGPGSGTVGP.	..... SEAGGPSEA
MR.T	.....	AGDTDREA GGPGSGTVGP.	..... SEAGGPSEA
	51		100
BI254	...SEAGGPS EAGGPSGTVG PSEAGGPSEA GGPGSGTGWPS EAGGPSGTVG		
BI1053	...SEAGGPS EAGGPSGTVG PSEAGGPSEA GGPGSGTGWPS EAGGPSGTVG		
BI2227	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSEAGW		
BI2259	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSEAGW		
BI2253	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSEAGW		
GRAC,S	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSEAGW		
FISH,S	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSEAGW		
MN1HAM	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSGTGW		
MN2	...SEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSGTGW		
MN1PAT	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSGTGW		
Bmni-6	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSGTGW		
MN3	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSGTGW		
MR.T	GGPSEAGGPS EAGGPSEAGG PSEAGGPSEA GGPSEAGGPS EAGGPSGTGW		
	101		150
BI254	PSEAGGP.....S EAGGPSGTGW PSGTGPSEV GWPSERFQYQ		
BI1053	PSEAGGP.....S EAGGPSGTGW PSGTGPSEV GWPSERFQYQ		
BI2227	PSEAGWPSEA GGPGSGTGWPS EAGWPSEAGW PSEAGWPSEA GW.....		
BI2259	PSEAGWPSEA GGPGSGTGWPS EAGWPSEAGW PSEAGWPSEA GWPSERFQYQ		
BI2253	PSEAGWPSEA GGPGSGTGWPS EAGWPSEAGW PSEAGWPSEA GWPSERFQYQ		
GRAC,S	PSEAGWPSEA GGPGSGTGWPS EAGWPSEAGW PSEAGWPSEA GWPSERFQYQ		
FISH,S	PSEAGWPSEA GGPGSGTGWPS EAGWPSEAGW PSEAGWPSEA GWPSERFQYQ		
MN1HAM	PSEAGWP.....S EAGWPSEAGW PSEAGWPSEA GWPSERFQYQ		
MN2	PSEAGWP.....S EAGWPSEAGW PSEAGWPSEA GW.....		
MN1PAT	PSEAGWP.....S EAGWPSEAGW PSEAGWPSEA GWPSERFQYQ		
Bmni-6	PSEAGWP.....S EAGWPSEAGW PSEAGWPSEA GWPSERFQYQ		
MN3	PSEAGWP.....S EAGWPSEAGW PSEAGWPSEA GWPSERFQYQ		
MR.T	PSEAGWP.....S EAGWPSEAGW PSEAGWPSEA GWPSERFQYQ		

Fig. 6A

	151	177
BI254	LLWYSRRIVI	
BI1053	LLWYSRRIVI	
BI2227	.....
BI2259	LLWYSRRIVI	
BI2253	.....
GRAC,S	LLWYS.....	
FISH,S	.....
MN1HAM	LLWYSRRIVI	
MN2	.....
MN1PAT	LLWYS.....	
Bmni-6	LLWYSRRIVI FNEIYLSHIY EHSVMIL	
MN3	LLWYSR.....	
MR.T	LLWYSR.....	

Fig. 6B